

SM

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	10253	glucan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:21
S2	722247	(1-3)(1-4)-beta-D-glucan 55965-23-6 (1-3,1-4)-beta-glucan "beta-D-glucan, (1-3)(1-4)-" "oat beta-glucan" "cereal beta-glucan" beta-glucan "beta(1-3) beta(1-4) glucan"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:41
S3	1171199	isolate purify extract	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:27
S4	2551	S2 with S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:27
S5	10	S4 with purity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:27
S6	2024	"(1-3)(1-4)-beta-D-glucan" "55965-23-6" "(1-3, 1-4)-beta-glucan" "beta-D-glucan, (1-3)(1-4)-" "oat beta-glucan" "cereal beta-glucan" "beta-glucan" "beta(1-3) beta(1-4) glucan"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 12:50
S7	296	S3 with S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 09:06
S8	296	S7 with S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:38
S9	4	S7 with purity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:41

## EAST Search History

S10	4	S7 with \$purity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:45
S11	2024	"(1-3),(1-4)-beta-D-glucan" "(1-3,1-4)-beta-D-glucan" "(1-3),(1-4)-beta-glucan" "55965-23-6" "(1-3,1-4)-beta-glucan" "beta-D-glucan, (1-3)(1-4)-" "oat beta-glucan" "cereal beta-glucan" "beta-glucan" "beta(1-3) beta(1-4) glucan"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:43
S12	2092976	purity \$purity clarity NTU contamina\$ homogene\$ uniformity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:49
S13	296	S3 with S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:49
S14	12	S13 same S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 09:49
S15	20	((MARK) near2 (REDMOND)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/27 10:09
S16	31	((MARK) near2 (REDMOND)).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 10:09
S17	23	((DAVID) near2 (FIELDER)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/27 10:10
S18	32	((DAVID) near2 (FIELDER)).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 10:11
S19	51	S16 or S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 10:11

## EAST Search History

S20	5	S19 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/27 10:12
S21	88556	("1,3" "1,4" beta-glucan) AND (synthesis or purification) AND (impurity or impurities)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:48
S22	4	("1,3" adj "1,4" adj3 beta-glucan) AND (synthesis or purification) AND (impurity or impurities)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:37
S23	13	("1,3" adj "1,4" adj3 beta-glucan)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:38
S24	123	beta with "1,3" adj "1,4" with glucan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:39
S25	2	S24 with (purification synthesis)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:39
S26	2035	"(1-3)(1-4)-beta-D-glucan" "55965-23-6" "(1-3, 1-4)-beta-glucan" "beta-D-glucan, (1-3)(1-4)-" "oat beta-glucan" "cereal beta-glucan" "beta-glucan" "beta(1-3) beta(1-4) glucan"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:46
S27	13687	("1,3" adj3 "1,4" beta-glucan) AND (synthesis or purification) AND (impurity or impurities)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:48
S28	17	((("1,3" adj3 "1,4" adj3 glucan) with beta) AND (synthesis or purification) AND (impurity or impurities)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 12:50

## EAST Search History

S29	124	((("1,3" adj3 "1,4" adj3 glucan) with beta)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 13:33
S30	2	S29 with (synthesis purification)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 13:34
S31	0	S29 with (purity clarity particle adj size)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 13:36
S32	0	S29 same(purity clarity particle adj size)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 13:36
S33	0	S29 same (purity clarity particle adj size)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 13:36
S34	53	S29 and (purity clarity particle adj size)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 13:47
S35	17	"5518710"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/11 13:47
S36	2	((("5980918") or ("5518710") or ("62848861") or ("200201654"))). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 09:07
S37	2	((("5980918") or ("5518710") or ("62848861") or ("2002016454"))). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 09:10
S38	0	2002/016454	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 09:09
S39	0	2002/0016454	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 09:09

## EAST Search History

S40	1	"20020016454"	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 09:10
S41	106	2002/0054917 2002/0102316 2002/0106430 2002/0110606 2002/0119928 2003/0059416 2003/0059501 "5,330,740" "5,512, 287" "5,622,939" "5,980,918" "6, 015,548" "6,083,547" "6,159,459" "6,174,519" "6,235,272" "6,242, 594" "6,306,453" "6,323,338"	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 12:07
S42	0	(2002/00549172002/01023162002/ 01064302002/01106062002/011992 82003/00594162003/00595015,330, 7405,512,2875,622,9395,980,9186, 015,5486,083,5476,159,4596,174, 5196,235,2726,242,5946,306,4536, 323,338).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 12:07
S43	106	2002/0054917 2002/0102316 2002/0106430 2002/0110606 2002/0119928 2003/0059416 2003/0059501 "5,330,740" "5,512, 287" "5,622,939" "5,980,918" "6, 015,548" "6,083,547" "6,159,459" "6,174,519" "6,235,272" "6,242, 594" "6,306,453" "6,323,338"	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 12:08
S44	12	((("5,330,740") or ("5,512,287") or ("5,622,939") or ("5,980,918") or ("6,015,548") or ("6,083,547") or ("6,159,459") or ("6,174,519") or ("6,235,272") or ("6,242,594") or ("6,306,453") or ("6,323,338"))).PN. or ((2002/0054917) or (2002/0102316) or (2002/0106430) or (2002/0110606) or (2002/0119928) or (2003/0059416) or (2003/0059501)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 12:10
S45	5	2002/0054917 2002/0102316 2002/0106430 2002/0110606 2002/0119928 2003/0059416 2003/0059501	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 12:10
S46	12	((("5,330,740") or ("5,512,287") or ("5,622,939") or ("5,980,918") or ("6,015,548") or ("6,083,547") or ("6,159,459") or ("6,174,519") or ("6,235,272") or ("6,242,594") or ("6,306,453") or ("6,323,338"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 12:12
S47	8	"20020054917" "20020102316" "20020106430" "20020110606" "20020119928" "20030059416" "20030059501"	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/16 12:11

## EAST Search History

S48	2	((("6426201") or ("6284886")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 12:13
S49	4	((("5518710") or ("5980918") or ("6284886") or ("20020016454")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 12:13
S50	10643	"(1-3)(1-4)-beta-D-glucan" "55965-23-6" "(1-3, 1-4)-beta-glucan" "beta-D-glucan, (1-3)(1-4)-" "oat beta-glucan" "cereal beta-glucan" "beta-glucan" "beta(1-3) beta(1-4) glucan" glucan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/17 17:31
S51	314285	cereal barley oat wheat rye corghum millet corn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 13:08
S52	316039	cereal barley oat wheat rye sorghum millet corn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 13:08
S53	386757	enzyme amylase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 13:08
S54	6244112	basic alkaline base hydroxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 13:27
S55	1229166	alcohol ethanol	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:06
S56	2360	S50 S52 S53 S54 S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/04/16 13:50
S57	6	S50 S52 S53 S54 S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 13:47

## EAST Search History

S58	2576	"0.2" adj (micro um)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:19
S59	9	S56 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 13:48
S60	6	S50 S52 S53 S54 S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:07
S61	9	S50 S52 S54 S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/16 15:07
S62	8	S61 not S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/16 14:32
S63	1344808	alcohol ethanol methanol isopropanol	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:06
S64	6	S50 S52 S53 S54 S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:09
S65	26	S50 S52 S54 S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:10
S66	0	S64 not S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:09
S67	20	S65 not S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:16

## EAST Search History

S68	3	precipitate precipitated coagulate coagulated flocculate flocculated	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:17
S69	640941	precipitate precipitated coagulate coagulated flocculate flocculated flocculant coagulant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:18
S70	0	S69 S63 S58 S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/16 15:20
S71	4872	"0.2" near5 (micro um)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:20
S72	35205	"0.2" near5 (micron um)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:20
S73	32369	"0.2" near2 (micron um)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/16 15:20
S74	0	S69 S63 S73 S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/16 15:21
S75	0	S69 S63 S73 S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:21
S76	0	S69 S63 S72 S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:24
S77	1	S63 S72 S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:25



## EAST Search History

S78	12	S72 S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/16 15:25
S79	1	("5576015").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/16 17:54
S80	1757763	alkaline basic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:50
S81	2	termamyl calcium dependence	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/17 17:31
S82	10651	"(1-3)(1-4)-beta-D-glucan" "55965-23-6" "(1-3, 1-4)-beta-glucan" "beta-D-glucan, (1-3)(1-4)-" "oat beta-glucan" "cereal beta-glucan" "beta-glucan" "beta(1-3) beta(1-4) glucan" glucan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/17 17:31
S83	1346	termamyl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/17 17:31
S84	53505	inactivate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/17 17:32
S85	6245992	alkaline basic base hydroxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/18 08:20
S86	352150	inactivate inactive denature denatured	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/17 17:32
S87	0	S82 S83 S85 S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/17 17:33

## EAST Search History

S88	0	S82 S83 S85 S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/17 18:05
S89	3	aylase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/17 17:35
S90	33421	amylase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/17 17:35
S91	4	S82 S90 S85 S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/17 17:58
S92	0	S82 S90 S85 S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/17 17:56
S93	1340217	acid	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/17 18:01
S94	35	S86 with S93 with (S83 S90)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/17 18:38
S95	0	S86 with S93 with (S83)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/17 18:03
S96	0	S82 S83 S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/17 18:06
S97	18	S82 S90 S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	SAME	ON	2007/04/17 18:06
S98	35	S86 with S93 with S90	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/17 18:38

## EAST Search History

S99	1203939	extract isolate purify extract	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/18 08:20
S10 0	10651	"(1-3)(1-4)-beta-D-glucan" "55965-23-6" "(1-3, 1-4)-beta-glucan" "beta-D-glucan, (1-3)(1-4)-" "oat beta-glucan" "cereal beta-glucan" "beta-glucan" "beta(1-3) beta(1-4) glucan" glucan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/18 08:21
S10 1	6245992	alkaline basic base hydroxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/18 08:21
S10 2	6839936	S100 S101 S99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/18 08:21
S10 3	53	S100 S101 S99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/18 08:23
S10 4	1588450	minutes	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/18 08:23
S10 5	0	S103 with S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	WITH	ON	2007/04/18 08:23